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PATENT  
Atty. Docket No.: 57430.00006

Margie A. Uribe  
Margie A. Uribe

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Norberto A. Guzman

Group Art Unit: 1753

Serial No.: 10/821,328

Examiner: Alexander Stephan Noguera

Filed: June 17, 2002

For: MULTI-DIMENSIONAL  
ELECTROPHORESIS APPARATUS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Forms PTO/SB/08A (14 sheets) are being brought to the attention of the Examiner for consideration in connection with the examination of the above-captioned patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Seventeen (17) foreign patent references and one hundred ten (110) non-patent literature documents are enclosed.

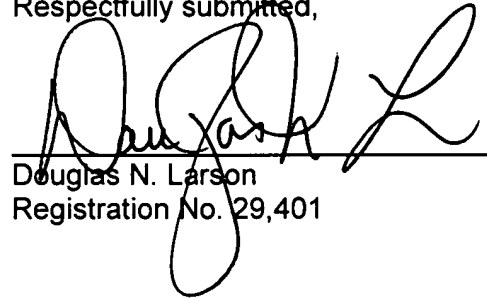
It is respectfully requested that the Examiner indicate consideration of the cited references by returning with the Examiner's next action a copy of the attached Forms PTO/SB/08A with initials or other appropriate marks, and that the references be made of record as cited references in the application.

Serial No.: 10/821,328

**PATENT**  
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The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 07-1853 during the pendency of prosecution of this application. Should such additional fees be associated with an extension of time, applicants respectfully request that this paper be considered a petition therefor. A duplicate of this paper is enclosed for the Deposit Account, should it be needed.

Respectfully submitted,



Douglas N. Larson  
Registration No. 29,401

Dated: May 27, 2005

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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

## Complete if Known

Application Number	10/821,328
Filing Date	June 17, 2002
First Named Inventor	Norberto A. Guzman
Art Unit	1753
Examiner Name	Alex Nogueroles
Attorney Docket Number	57430.00006

Sheet 1 of 14

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,045,172		Guzman	
		US- 5,202,010		Guzman	
		US- 5,246,577		Fuchs et al.	
		US- 5,318,680		Fishman et al.	
		US- 5,340,452		Brenner et al.	
		US- 5,548,633		Karger et al.	
		US- 5,413,686		Klein et al.	
		US- 5,439,578		Dovichi et al.	
		US- 5,453,382		Novotny et al.	
		US- 5,498,324		Yeung et al.	
		US- 5,516,409		Kambara	
		US- 5,560,811		Briggs et al.	
		US- 5,730,850		Kambara et al.	
		US- 5,741,639		Ensing et al.	
		US- 5,800,692		Naylor et al.	
		US- 5,958,202		Regnier et al.	
		US- 6,007,690		Nelson et al.	
		US- 6,010,607		Ramsey	
		US- 6,010,608		Ramsey	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 95/10344	4/1995			
		WO 97/11362	3/1997			
		WO 00/30751	6/2000			
		WO 00/65354	11/2000			
		WO 02/44703 A2	6/2002			
		WO 02/48716 A2	6/2002			

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT BY APPLICANT**

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Sheet 2 of 14

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		US- 6,020,208		Hutchens et al.	
		US- 6,224,728		Oborny et al.	
		US- 6,387,234		Yeung et al.	
		US- 6,395,169		Hindsgaul et al.	
		US- 6,406,604		Guzman	
		US- 6,415,821		Kambolz et al.	
		US- 6,534,262		McKernan et al.	
		US- 6,544,396		Cong et al.	
		US- 6,554,986		Mathies et al.	
		US- 6,562,214		Amrhein et al.	
		US- 6,596,140		Nordman et al.	
		US- 6,613,212		Siebert et al.	
		US- 6,616,824		Tanaka	
		US- 6,627,453		Hindsgaul et al.	
		US- 6,635,164		Anazawa et al.	
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		WO 02/059592 A2	8/2002			
		WO 03/27028 A1	4/2003			
		WO 03/038424 A1	5/2003			
		WO 03/48755 A1	6/2003			
		WO 03/059935 A2	7/2003			
		WO 03/087772 A2	10/2003			

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First Named Inventor	Norberto A. Guzman
Art Unit	1753
Examiner Name	Alex Nogueroles
Attorney Docket Number	57430.00006

Sheet 3 of 14

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		US-			
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		EP 0793098	9/1997			
		EP 1048950	11/2000			
		EP 1048951	11/2000			
		EP 0666980 B1	5/2002			
		EP 1357378 A2	10/2003			

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		Filing Date	June 17, 2002
		First Named Inventor	Norberto A. Guzman
		Art Unit	1753
		Examiner Name	A.S Noguera
Sheet 4	of 14	Attorney Docket Number	57430.00006

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Affinity Chromatography," Cuatrecasas and Anfinson, Annual Review of Biochemistry 40, pp. 259-278. No month available (1971).	
		"Isotachopheresis Electrodesorption of Proteins from an Affinity Adsorbent on a Microscale," Kasicka and Prusik, Journal of Chromatography 273(1), pp. 117-128 (March 11, 1983).	
		"Desorption Isotachopheresis - Quantitative Characterization of Sorption and Desorption Conditions," Kasicka and Prusik, Journal of Chromatography 320(1), pp. 75-80 (February 22, 1985).	
		"The Use of a Concentration Step to Collect Urinary Components Separated by Capillary Electrophoresis and Further Characterization of Collected Analytes by Mass Spectrometry," Guzman et al., Journal of Liquid Chromatography 14(5), pp. 997-1015 (March 1991).	
		"Enzymophoresis of Nucleic Acids by Tandem Capillary Enzyme Reactor-Capillary Zone Electrophoresis," Nashabeh and Ziad El Rassi, Journal of Chromatography 596(2), pp. 251-264 (April 10, 1992).	
		"Switching Valve with Internal Micro Precolumn for On-Line Sample Enrichment in Capillary Zone Electrophoresis," Debets et al., Journal of Chromatography 608(1-2), pp. 151-158 (September 11, 1992).	
		"On-Line Peptide Mapping by Capillary Electrophoresis," Amankwa and Kuhr, Analytical Chemistry 65(19), pp. 2693-2697 (October 1, 1993).	
		"Preparation and Evaluation of an On-Line Preconcentrator for Capillary Electrophoresis," Hoyt, Jr. et al., Journal of Microcolumn Separations 5(4), pp. 325-330, No month available (1993).	
		"On-Line Sample Preconcentration on a Packet-Inlet Capillary for Improving the Sensitivity of Capillary Electrophoresis of Pharmaceuticals," Swartz and Merion, Journal of Chromatography 632(1-2), pp. 209-213 (February 19, 1993).	
		"Immunoaffinity Capillary Electrophoresis Analysis of Cyclosporin in Tears," Phillips and Chmielinska, Biomedical Chromatography 8(5), pp. 242-246 (September-October 1994).	

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		Examiner Name	A.S Noguera
Sheet	5	of	14
		Attorney Docket Number	57430.00006

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		"Optimization of On-Line Peptide Mapping by Capillary Zone Electrophoresis," Licklider and Kuhr, Analytical Chemistry 66(24), pp. 4400-4407 (December 15, 1994).	
		"The Use of Solid Phase Concentrators for On-Line Preconcentration of Metallothionein Prior to Isoform Separation by Capillary Zone Electrophoresis," Beattie et al., Electrophoresis 16(3), pp. 322-328 (March 1995).	
		"Selective Preconcentration for Capillary Zone Electrophoresis Using Protein G Immunoaffinity Capillary Chromatography," Cole and Kennedy, Electrophoresis 16(4), pp. 549-556 (April 1995).	
		"Sensitivity Enhancement and Second-Dimensional Information from Solid Phase Extraction-Capillary Electrophoresis of Entire High-Performance Liquid Chromatography Fractions," Strausbauch et al., Electrophoresis 16(4), pp. 541-548 (April 1995).	
		"Michaelis-Menten analysis of immobilized enzyme by affinity capillary electrophoresis," Yoshimoto et al., Journal of Pharmaceutical and Biomedical Analysis 13(4-5), pp. 483-488 (April 1995).	
		"Biomedical Applications of On-Line Preconcentration-Capillary Electrophoresis Using an Analyte Concentrator: Investigation of Design Options," Guzman, Journal of Liquid Chromatography 18(18&19), pp. 3751-3768 (June 1995).	
		"Capillary enzymophoresis of nucleic acid fragments using coupled capillary electrophoresis and capillary enzyme microreactors having surface-immobilized RNA-modifying enzymes," Mechref and El Rassi, Electrophoresis 16(11), pp. 2164-2171 (November 1995).	
		"Immobilization of Antibodies as a Versatile Tool in Hybridized Capillary Electrophoresis," Ensing and Paulus, Journal of Pharmaceutical and Biomedical Analysis 14(3), pp. 305-316 (January 1996).	
		"On-Capillary Sample Preconcentration Incorporated in Chiral Capillary Electrophoresis," He et al., Analytical Sciences 12, pp. 177-181 (April 1996).	
		"Preconcentration and Microreaction Technology On-Line with Capillary Electrophoresis," Tomlinson et al., Journal of Chromatography A 744(1-2), pp. 3-15 (13 September, 1996).	

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		"Protein Identification by Solid Phase Microextraction-Capillary Zone Electrophoresis-Microelectrospray-Tandem Mass Spectrometry," Figeys et al., Nature Biotechnology 14(11), pp. 1579-1583 (November 1996).	
		"Consecutive protein digestion and peptide derivatization employing an on-line analyte concentrator to map proteins using capillary electrophoresis," Guzman, In: Capillary Electrophoresis in Analytical Biotechnology (Edited by Pier Giorgio Righetti), CRC Series in Analytical Biotechnology, Chapter 4, pp. 101-121, CRC Press, Inc. Boca Raton, Florida (1996, No month available).	
		"Identification of Proteins by Capillary Electrophoresis-Tandem Mass Spectrometry. Evaluation of an On-Line Solid-Phase Extraction Device," Figeys et al., Journal of Chromatography A 763(1-2), pp. 295-306 (28 February, 1997).	
		"High-Throughput DNA Sequencing on a Capillary Array Electrophoresis System," Marsh et al., Journal of Capillary Electrophoresis 4(2), pp. 83-89 (March-April 1997).	
		"New Approaches in Clinical Chemistry: On-Line Analyte Concentration and Microreaction Capillary Electrophoresis for the Determination of Drugs, Metabolic Intermediates, and Biopolymers in Biological Fluids," Guzman et al., Journal of Chromatography B 697(1-2), pp. 37-66 (September 12, 1997).	
		"Automated Microanalysis Using Magnetic Beads with Commercial Capillary Electrophoresis Instrumentation," Rashkovetsky et al., Journal of Chromatography A, 781(1-2), pp. 197-204 (26 September, 1997).	
		"A Novel m-ESI Source for Coupling Capillary Electrophoresis and Mass Spectrometry: Sequence Determination of Tumor Peptides at the Attomole Level," Settlage et al., Journal of Microcolumn Separation 10(3), pp. 281-285, No month available (1998).	
		"Analysis of Multiplexed Short Tandem Repeat (STR) Systems Using Capillary Array Electrophoresis," Mansfield et al., Electrophoresis 19(1), pp. 101-107 (January, 1998).	
		"A New Design for Large, Dilute Sample Loading in Capillary Electrophoresis," Barroso and de Jong, Journal of Capillary Electrophoresis 5(1-2), pp. 1-7 (January-February-March-April, 1998).	
		"Affinity Capillary Electrophoresis: A Physical-Organic Tool for Studying Interactions in Biomolecular Recognition," Colton et al., Electrophoresis 19(3), pp. 367-382 (March 1998).	

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		Art Unit	1753		
		Examiner Name	A.S Nogueraola		
Sheet	7	of	14	Attorney Docket Number	57430.00006

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		"Survey of Recent Advances in Analytical Applications of Immunoaffinity Chromatography," Hage, Journal of Chromatography B 715(1), pp. 3-28 (September 11, 1998).	
		"Affinity Capillary Electrophoresis: Important Application Areas and Some Recent Developments," Heegaard et al., Journal of Chromatography B 715(1), pp. 29-54 (September 11, 1998).	
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		"Nanoflow Solvent Gradient Delivery from a Microfabricated Device for Protein Identifications by Electrospray Ionization Mass Spectrometry," Figeys and Aebersold, Analytical Chemistry 70(18), pp. 3721-3727 (September 15, 1998).	
		"Fabrication of Nanocolumns for Liquid Chromatography," He et al., Analytical Chemistry 70(18), pp. 3790-3797 (September 15, 1998).	
		"Parallel Molecular Genetic Analysis," McKenzie et al., European Journal of Human Genetic 6(5), pp. 417-429 (September-October, 1998).	
		"Optimization of Solid Phase Microextraction-Capillary Zone Electrophoresis-Mass Spectrometry for High Sensitivity Protein Identification," Figeys et al., Electrophoresis 19(13), pp. 2338-2347 (October, 1998).	
		"Analysis of Recombinant Cytokines in Human Body Fluids by Immunoaffinity Capillary Electrophoresis," Phillips and Dickens, Electrophoresis 19(16-17), pp. 2991-2996 (November, 1998).	
		"Evaluation of Adsorption Preconcentration/Capillary Zone Electrophoresis/Nanospray Mass Spectrometry for Peptide and Glycoprotein Analyses," Bateman et al., Journal of Mass Spectrometry 33(11), pp. 1109-1123 (November, 1998).	
		"Precolumn Affinity Capillary Electrophoresis for the Identification of Clinically Relevant Proteins in Human Serum: Application to human Cardiac Troponin I," Dalluge and Sander, Analytical Chemistry 70(24), pp. 5339-5343 (December 15, 1998).	

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		"SDS Capillary Electrophoresis of Proteins in Microfabricated Channels," Yao et al., Proceedings of the National Academy of Sciences USA 96(10), pp. 5372-5377 (May 11, 1999).	
		"Miniaturised on-line solid-phase extraction for enhancement of concentration sensitivity in capillary electrophoresis," Petersson et al., Journal of Chromatography A 841(2), pp. 249-261 (14 May 1999).	
		"On-line solid-phase preconcentration for sensitivity enhancement in capillary electrophoresis," Bonneil and Waldron, Journal of Capillary Electrophoresis 6(3-4), pp. 61-73 (May-August 1999).	
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		"Simultaneous Genetic Typing from Multiple Short Tandem Repeat Loci Using a 96-Capillary Array Electrophoresis System," Gao et al., Electrophoresis 20(7), pp. 1518-1526 (June 1999).	
		"Dynamic Hybridization on a Chip Using Paramagnetic Beads," Fan et al., Analytical Chemistry 71(21), pp. 4851-4859 (November 1, 1999).	

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		"Sheath less Preconcentration-Capillary Zone Electrophoresis-Mass Spectrometry Applied to Peptide Analysis," Begona Barroso and de Jong, Journal of the American Society for Mass Spectrometry 10(12), pp. 1271-1278 (December 1999).	
		"Characterization of a solid-phase extraction device for discontinuous on-line preconcentration in capillary electrophoresis-based peptide mapping," Bonneil and Waldron, Journal of Chromatography B 736(1-2), pp. 273-287 (December 24, 1999).	
		"Strategies to improve the sensitivity in capillary electrophoresis for the analysis of drugs in biological fluids," Hempel, Electrophoresis 21(4), pp. 691-698 (March 2000).	
		"Mapping the phosphorylation sites of proteins using on-line immobilized metal affinity chromatography/capillary electrophoresis/electrospray ionization multiple stage tandem mass spectrometry," Cao and Stults, Rapid Communication Mass Spectrometry 14(17), pp. 1600-16006. No month available (2000).	
		"Packing columns for capillary electrochromatography," Colon et al., Journal of Chromatography A 887(1-2), pp. 43-53 (July 28, 2000).	
		"Stationary phases for capillary electrochromatography," Pursch and Sander, Journal of Chromatography A 887(1-2), pp. 313-326 (July 28, 2000).	
		"On-line preconcentration methods for capillary electrophoresis," Osbourn et al., Electrophoresis 21(14), pp. 2768-2779 (August 2000).	
		"Alternative methods providing enhanced sensitivity and selectivity in capillary electrophoresis," Schweitz et al., Journal of Chromatography A 892(1-2), pp. 203-217 (15 September 2000).	
		"Electrochromatography," Smith and Carter-Finch, Journal of Chromatography A 892(1-2), pp. 219-255 (15 September 2000).	

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		"Analysis of single-cell cultures by immunoaffinity capillary electrophoresis with laser-induced fluorescence detection," Phillips, Luminescence 16(2), pp. 145-152 (March-April 2001).	
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		"On-line sample preconcentration in capillary electrophoresis, focused on the determination of proteins and peptides," Stroink et al., Electrophoresis 22(12), pp. 2374-2383 (August 2001).	
		"Approaches to enhancing the sensitivity of capillary electrophoresis methods for the determination of inorganic and small organic anions," Breadmore and Haddad, Electrophoresis 22(12), pp. 2464-2489 (August 2001).	
		"Robust and cost-effective capillary electrophoresis-mass spectrometry interfaces suitable for combination with on-line analyte preconcentration," Waterval et al., Electrophoresis 22(13), pp. 2701-2708 (August 2001).	
		"Capillary electrophoretic bioanalysis of therapeutically active peptides with UV and mass spectrometric detection after on-capillary preconcentration," Waterval et al., Electrophoresis 22(13), pp. 2709-2716 (August 2001).	
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		"Sample preparation with fiber-in-tube solid-phase microextraction for capillary electrophoretic separation of tricyclic antidepressant drugs in human urine," Jinno et al., Electrophoresis 22(17), pp. 3785-3790 (October 2001).	

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		"Toward a microchip-based solid-phase extraction method for isolation of nucleic acids," Wolfe et al., Electrophoresis 23(5): 727-733 (March 2002).	
		"Immunoaffinity screening with capillary electrophochromatography," Mayer et al., Electrophoresis 23(9), pp. 1255-1262 (May 2002).	
		"On-column ion-exchange preconcentration of inorganic anions in open tubular capillary chromatography with elution using transient-isotachophoretic gradients. 3. Implementation and method development," Breadmore et al., Analytical Chemistry 74(9), 2112-2118 (May 1, 2002).	
		"On-line trypsin-encapsulated enzyme reactor by the sol-gel method integrated into capillary electrophoresis," Sakai-Kato et al., Analytical Chemistry 74(13): 2943-2949 (July 1, 2002).	
		"Sweeping: Concentration mechanism and applications to high-sensitivity analysis in capillary electrophoresis," Quirino et al., Journal of Chromatography A 965(1-2), pp. 357-3773 (August 2002).	

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		"Immuno-based sample preparation for trace analysis," Hennion and Pichon, Journal of Chromatography A 1000(1-2), pp. 29-52 (June 6, 2003).	

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		Application Number	10/821.328
		Filing Date	June 17, 2002
		First Named Inventor	Norberto A. Guzman
		Art Unit	1753
		Examiner Name	A.S Nogueraola
Sheet	14	of	14
		Attorney Docket Number	57430.00006

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Integrated nanoliter systems," Hong and Quake, Nature Biotechnology 21(10), pp. 1179-1183 (October 2003).	
		"Small-scale systems for in vivo drug delivery," La Van et al., Nature Biotechnology 21(10), pp. 1184-1191 (October 2003).	
		"Electrochemical DNA detectors," Drummond et al., 21(10), Nature Biotechnology 21(10), 1192-1199 (October 2003).	
		"Low-attomole electrospray ionization MS and MS/MS analysis of protein tryptic digests using 20- $\mu$ m-i.d. polystyrene-divinylbenzene monolithic capillary columns," Ivanov et al., Analytical Chemistry 75(20), pp. 5306-5316.	
		"Dual-function microanalytical device by in situ photolithographic grafting of porous polymer monolith: Integrating solid-phase extraction and enzymatic digestion for peptide mass mapping," Peterson et al., Analytical Chemistry 75(20), pp. 5328-5335 (October 15, 2003).	
		"Phosphoprotein isotope-coded solid-phase tag approach for enrichment and quantitative analysis of phosphopeptides from complex mixtures," Qian et al., Analytical Chemistry 75(20), pp. 5441-5450 (October 15, 2003).	
		"Development of a poly(dimethylsiloxane) interface for on-line capillary column liquid chromatography-capillary electrophoresis coupled to sheathless electrospray ionization time-of-flight mass spectrometry," Bergstrom et al., Analytical Chemistry 75(20), pp. 5461-5467 (October 15, 2003).	
		"Chip-based solid-phase extraction pretreatment for direct electrospray mass spectrometry analysis using an array of monolithic columns in a polymeric substrate," Tan et al., Analytical Chemistry 75(20), pp. 5504-5511 (October 15, 2003).	
		"Biochemical analysis with microfluidic systems," Bilitewski et al., Analytical and Bioanalytical Chemistry 377(3), pp. 556-569 (October 2003).	
		"The puzzle of the proteome," Willis, Modern Drug Discovery 6(10), pp. 26-30 (October 2003).	

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